Abstract

Compounds of the formulae I, II, III, IV and V

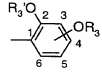
(I)


(II)


(III)


(IV)


(V), wherein

R_1 i.a. is C_4-C_9cycloalkanoyl, C_1-C_{12}alkanoyl, C_4-C_6alkenoyl, or benzoyl; R_2 is for example phenyl, C_1-C_{20}alkyl, C_3-C_8cycloalkyl, C_2-C_{20}alkanoyl, or benzoyl; Ar_1 is R_4S-phenyl or NR_5R_6-phenyl, each of which optionally is substituted; or Ar_1 i.a. is 
,optionally substituted; or Ar_1 is naphthyl or anthracyl each of which is unsubstituted or substituted; or Ar_1 is benzoyl, naphthalenecarbonyl, phenanthrenecarbonyl, anthracenecarbonyl or pyrenecarbonyl, each of which is unsubstituted or substituted, or Ar_1 is 3,4,5-trimethoxyphenyl, phenoxyphenyl or biphenyl; Ar_2 i.a. is 
, optionally substituted, or naphthyl or anthracyl, each of which is unsubstituted or substituted, x is 2 or 3; M_1 when x is 2, for example is phenylene, naphthalene, anthracylene, each of which optionally is substituted; M_1, when x is 3, is a trivalent radical; M_2 for example is 
; M_3 is for example C_1-C_{12}alkylene, cyclohexylene, or phenylene; n is 1-20; R_3 is for example hydrogen or C_1-C_{12}alkyl; R_3' i.a. is C_1-C_{12}alkyl; substituted or -O-interrupted C_2-C_6alkyl; R_4 is for example hydrogen, or C_1-C_{12}alkyl; and R_5 and R_6 independently of each other i.a. are hydrogen, C_1-C_{12}alkyl, or phenyl; are suitable as photoinitiators in particular in resist applications.